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NOTICE OF ALLOWANCE AND FEE(S) DUE

45453

7590

01/26/2010

BUCHANAN INGERSOLL & ROONEY PC (ARCHER DANIELS MIDLAND COMPANY) 301 GRANT STREET, 20TH FLOOR PITTSBURGH, PA 15219

EXAMINER				
KIM, ALEXANDER D				
ART UNIT	PAPER NUMBER			
1656	_			

DATE MAILED: 01/26/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771.695	02/04/2004	Paul D. Hanke	040049	4373

TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING A TRUNCATED ORF2 FROM CORYNEBACTERIUM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/26/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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(ARCHER DANIELS MIDLAND COMPANY)			ART UNIT	PAPER NUMBER
301 GRANT STREET, 20TH FLOOR PITTSBURGH, PA 15219			1656 DATE MAILED: 01/26/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 276 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 276 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/771,695	HANKE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ALEXANDER D. KIM	1656	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is so and MPEP 1308.	this application. If not included nication will be mailed in due course. T	
2. ☑ The allowed claim(s) is/are 19,20,22-24 and 38-47.	011 001 101 2000 .		
Acknowledgment is made of a claim for foreign priority ur a) □ All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have	e been received.		
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from t	the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE O	
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		/ PTO 048\ attached	
(a) ☐ including changes required by the Notice of Dranspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	(PTO-946) attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	s Amendment / Comment or .84(c)) should be written on th	e drawings in the front (not the back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☑ Examiner's /	ormal Patent Application mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	

DETAILED ACTION

Application Status

1. In response to the previous Office action, a Non-Final rejection (mailed on 03/17/2009), Applicants filed a response and amendment received on 09/15/2009.

Claims 1-18, 21, and 25-37 are canceled. Claims 19, 20, 22-24 and 38-47 are pending.

Claims 19, 20, 22-24 and 38-47 are directed to an allowable product in view of the Examiner's amendment as set forth below. Claims 41, 43 and 46, directed to the allowable product because they further limit and depend from a novel and unobvious claims 19 and 24. Claims 41, 43 and 46 encompass a polynucleotide of SEQ ID NO: 20, encoding the polypeptide of SEQ ID NO: 21; wherein the polynucleotide encoding the polypeptide of SEQ ID NO: 21 was previously withdrawn from consideration as a result of a restriction requirement as non-elected invention (i.e., as shown in Group VI, see Restriction/Election mailed out on 3/22/2006).

Since claims 41, 43 and 46 previously withdrawn from consideration under 37 CFR 1.142 have been rejoined (i.e., between Groups IV and VI), the restriction requirement as set forth in the Office action mailed on 3/22/2006 between Groups IV and VI is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to

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provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Terminal disclaimer

2. The terminal disclaimer filed on 09/15/2009 and 12/22/2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent 6,927,046 and US Patent 7,368,276, respectively, have been reviewed and is accepted on 9/24/2009 and 1/12/2010. The terminal disclaimers have been recorded.

Examiner's amendment to the Claims

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment shown below was given in a telephone interview with Duane Stewart III on Dec. 18, 2009 and Dec. 21, 2009. Amend the claim listing filed on 09/15/2009 with the following changes.

Claim 20. The isolated polynucleotide molecule of claim 19, wherein said nucleotide

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sequence encoding the polypeptide sequence of SEQ ID NO: 19 is SEQ ID NO: 18.

Claim 22: A host cell transformed with the isolated polynucleotide molecule of claim 19.

Claim 23: The host cell of claim 22, wherein said host cell is the cell deposited as NRRL B30360.

Claim 38. The isolated polynucleotide molecule of claim 20, wherein said nucleotide sequence encoding the polypeptide sequence of SEQ ID NO: 2 is SEQ ID NO: 1.

Claims 43-47. Replace "said isolated polynucleotide molecule" with ---said vector---.

Statement of Reasons for Allowance

4. Claims 19, 20, 22-24 and 38-47 are allowed. The following is an examiner's statement of reasons for allowance:

The instant invention is drawn to an isolated nucleic acid molecule comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO: 19 (i.e., truncated ORF2) and the polypeptide of SEQ ID NO: 2 (i.e., feedback resistant aspartokinase); and a method of selecting a transformed host cell having the isolated nucleic acid above.

The claimed isolated nucleic acid is novel and unobvious since the naturally occurring threonine amino acid residue 380 in the feedback sensitive form is changed to isoleucine in the ask gene of ATCC 21529 (see instant specification page 4, lines 10-

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14) resulting in the feedback resistant aspartokinase having the amino acid sequence of SEQ ID NO: 2; wherein the claimed nucleic acids, host cell and methods are useful for increasing the production of L-lysine (see page 1, lines 14-15, for example). In view of the examiner's amendment and approval of the terminal disclaimer, all outstanding rejections are withdrawn.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER D. KIM whose telephone number is (571)272-5266. The examiner can normally be reached on 10AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath N. Rao can be reached on (571) 272-0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alexander D Kim/ Examiner, Art Unit 1656

/David J. Steadman/ Primary Examiner, Art Unit 1656